



巨輪興有限公司

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OPERATING INSTRUCTIONS HYDRAULIC ELECTRIC PUMP SPE-554TQ



1. SAFETY PRECAUTIONS



Fail to comply with the following cautions and warnings could cause equipment damage and personal injury.



IMPORTANT :Minimum age of the operator must be 18 years The operator must have read and understood all instructions, safety issues, cautions and warnings before starting to operate the SUN RUN equipment. The operator is responsible for this activity towards other persons.



WARNING : To avoid personal injury and possible equipment damage, make sure all hydraulic components withstand the maximum pressure of 700 bar(10,000psi).



WARNING: Always wear safety glasses. The operator must take precaution against injury due to failure the tool or workpiece.



WARNING : The system operating pressure must not exceed the pressure rating of the lowest rated component in the system. Install pressure gauges in the system to monitor operating pressure. It is your window to what is happening in the system.



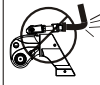
WARNING: Never pressurize uncoupled couplers. Only use hydraulic equipment in a coupled system.



WARNING: Immediately replace worn or damaged parts with genuine SUN RUN parts. SUN RUN parts are designed to fit properly and withstand rated loads.



IMPORTANT: Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact the SUN RUN Service Center in your area. To protect your warranty, use only SUN RUN oil.



CAUTION: Avoid sharp bends and kinks that will cause severe back-up pressure in hoses. Bends and kinks lead to premature hose failure.



DO NOT drop heavy objects on hose. A sharp impact may cause internal damage to hose wire strands. Applying pressure to a damaged hose may cause it to rupture.



IMPORTANT: Do not lift hydraulic equipment by the hoses or couplers. Use the carrying handle or other means of safe transport.



DANGER: Do not handle pressurized hoses. Escaping oil under pressure can penetrate the skin causing serious injury. If oil is injected under the skin, see a doctor immediately.



WARNING: To avoid personal injuries and equipment damage, do not remove the shroud of the wrench. Do not modify any component of the wrench. Do not change the relief valve which is inside the swivel couplings.



CAUTION: The incorrect system connection will cause failure and danger. Before connection, make sure the swivel couplings being clean. After application, the swivel couplings must be put on the dust caps.



CAUTION: Do not use worn socket and square drive.



CAUTION: Please use the socket of good performance.

2.SPECIFICATION

電泵型號選擇：Custom build your Electric Pump:

SPE-554TQ

1 5 1 8 2 0

0

1

2

3

4

5

6

0.樣式

TQ=扭力扳手專用

TQJ=一般舉升適用

0.Type

TQ= just use in Torque Wrench

TQJ= using in lift applications

1.電壓

1=115V

2=230V

1.Voltage

1=115V

2=230V

2.Hz

5=50Hz

6=60Hz

2.Hz

5=50Hz

6=60Hz

3.相數

1=單相

3.Phase

1=single phase

4.油箱 (Lx0.26=gal)

8=8L(2.1gal)

20=20L(5.2gal)

★亦可依客戶訂製

4.Reservoir (Lx0.26=gal)

8=8L(2.1gal)

20=20L(5.2gal)

★User can order suitable reservoir.

5.多通閥(含1/4"公-母快速接頭)

1=1座及1公-1母快速接頭

2=1座及2公-2母快速接頭(標準件)

3=1座及3公-3母快速接頭

4=1座及4公-4母快速接頭

5.Manifold (include 1/4" male-female coupler)

1=1 manifold with 1 male and 1 female coupler

2=1 manifold with 2 male and 2 female couplers (standard)

3=1 manifold with 3 male and 3 female couplers

4=1 manifold with 4 male and 4 female couplers

6.選配

W=輪子

O=冷卻系統

6.Optional

W=Wheel

O=Cool system

Model Number	Rpm	DBa at Idle and 700bar	Hp	Amp at 700bar	Flow rate @115VAC(L/min)				Oil tank (L)	Usable oil (L)	Weight (with oil) (kg)
					0 (bar)	50 (bar)	350 (bar)	700 (bar)			
SPE-554TQ	12000	80	1-1/8	25 /110V	11.3	7.1	1.2	0.9	8	7	32
				13 /230V							

NOTE: Take care about voltage or other power detail before using. Wrong electric power will make equipment and user serious damage.

3.OPERATION

3.1 Connect the one end of hose at pump coupler (HorA) and hose the other end connect to wrench (HorA). Pump H or A end can't be connected to wrench L or B end.

3.2 Check volt.

3.3 Check enough hydraulic oil (Aw32).

3.4 Check oil level in reservoir. Oil level should be 1" to 2" from the top of the reservoir plate.

WARNING: CAN'T BE USE IN NO OIL OR FAIL OIL !

Pressure torque setting

★ WARNING ★

Make these adjustments BEFORE putting torque wrench on nut or bolt head. The pump pressure setting may be above the pressure needed to provide the required torque for your application. Exceeding required torque will cause equipment damage and may lead to serious personal injury.

★See torque wrench instructions for amount of pressure required to produce desired torque.

★Loosen lock unit and back out relief valve to prevent unintended pressure build-up.

★Turn pump on. Press and hold the "UP" button, and read pressure gauge.

★While holding the button, turn relief valve in (clockwise) to increase pressure or out (counter-clockwise) to decrease maximum pressure. Repeat unit correct pressure is obtained.

★Run pump several times to test this setting.

RUNING TEST

- 1.Place wrench on space.
- 2.Turn on the pump and check the motor is running correctly.
- 3.Press the switch button [UP] and hear "crack" that because pawl moving and wrench reach position then stop moving, the pressure gauge will display from 0 to pressure that user need.
Release [UP] button, wrench piston will retract. As hear "crack" again that mean wrench retract to position and pressure gauge will run from 0 to 7.5Mpa(76.5kg/cm² / 1087.5psi).
- 4.Press [UP] button again, a new cycle will be run again.
- 5.Operat step 1 to 3 several times and check the direction which wrench running and then put wrench on socket that you want work.



WARNING: As finish wrench, must turn off pump power !

4. Maintain oil level

- ★Check hydraulic oil level every 30 hours of operation. Add SUN RUN approved oil when necessary. Oil level should be more than 2" from top of reservoir plate. Completely change oil at least twice a year. The following conditions require more frequent oil changes:
 1. Rigorous duty, where oil temperature may reach 140 F(60°C).
 2. High humidity environment and extreme changes in temperature that can result in condensation inside the reservoir.
 3. Dirty or dusty environments that may contaminate the oil. Clean oil Filter Screen Once a Year.
 4. Loosen and remove reservoir plate bolts. Lift pump unit off the reservoir, being careful not to damage the gasket.
 5. Unscrew screen from the bottom of pump unit and clean with nonflammable solvent.
 6. Blow dry and reassemble. Keep areas around pump unobstructed to provide good airflow around the motor and pump. Keep the motor and pump as clean as possible.

5. Flushing the Pump

If you suspect your pump has been contaminated or discover sludge or other deposits on internal components, you should thoroughly flush the pump.

1. Remove the old oil from the reservoir, then thoroughly clean the reservoir and refill with clean, non-flammable flushing oil.
2. Reassemble the pump and motor to the reservoir.
3. Now run the pump in no pressure for 1 or 2 minutes maximum.
4. Unplug the pump and remove the motor and pump assembly again. Now drain the flushing oil and reclean the inside of the reservoir. (Make sure flushing is also drained from pump assembly.)

REFILL THE RESERVOIR WITH SUN RUN APPROVED HYDRAULIC OIL AND REASSEMBLE THE PUMP.

6.TROUBLESHOOTING

Problem	Cause/ Solution
Motor will not start	Be sure power cord is not damaged. Check for tripped circuit breaker-- be sure breaker is of adequate size. Have qualified electrician inspect for loose or faulty wiring. Have motor checked for defective motor capacitor. Be sure electrical supply and extension cords are adequate.
Noisy Operation	1.Air in system. 2.Be sure the oil reservoir is filled to normal level. 3.Check all points where air might leak into system.
Pump oil is over heating	1.Oil viscosity too high. 2.Check for high-pressure leakage on upper pressure plate.(Leaking at plug.) 3.Oil level is low. Fill reservoir to normal level , or refit the pump with larger reservoir.
Pump runs but will not pump oil	1.Pump is not primed. Run pump a few minutes tipping from side to side. 2.Check to make sure that externally adjustable relief valve set properly. Check internal relief valve. 3.Damaged O-ring. Take to nearest authorized service center for repair. 4.Defective control valve. (Troubleshoot separately).